

$$a^2 - 4a + 3 = 0$$

$$(a-1)(a-3) = 0$$

$$a = 1 \quad a = 3$$

۱

الف) به ازای $x=0$ y هر عددی x تابع است.
ب) به ازای $x=0$ y تابع است.

۲

الف)

ب) $x=0$ $y=0$ $y^4-1=0 \rightarrow y(y^2-1)(y^2+1)=0$ $y=0$ یا $y=1$ یا $y=-1$ تابع x

ج)

۱) x هر عددی $y \rightarrow (y-1)=0$ $x=0$ $x(2y-1)=0$ تابع x

الف) $|y-1| = \frac{4x-x^2}{1-4}$ $y-1=4 \rightarrow y=5$ $y-1=-4 \rightarrow y=-3$ تابع نیست

۲ و ۳

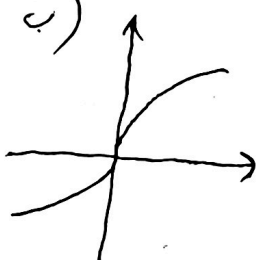
ب) $y = \sqrt{x-3}$ $y = -3x$ تابع است

۴

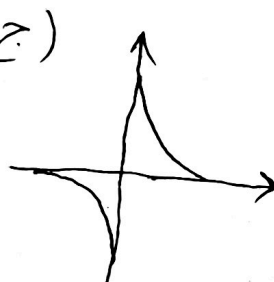
الف)



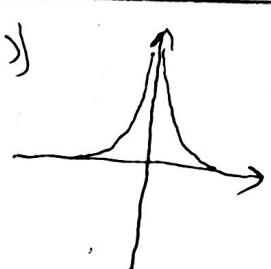
ب)



ج)

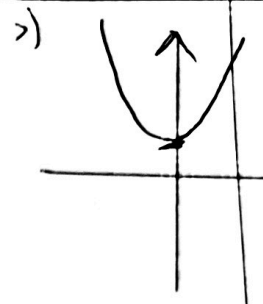
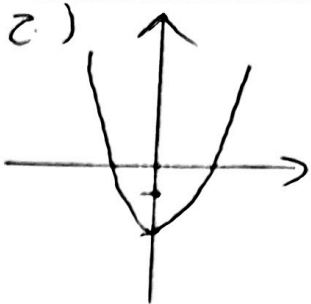
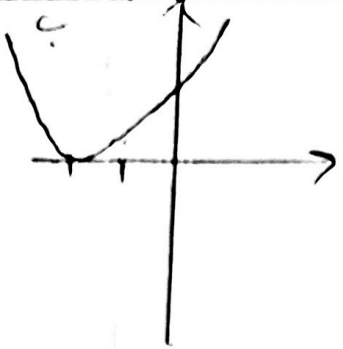
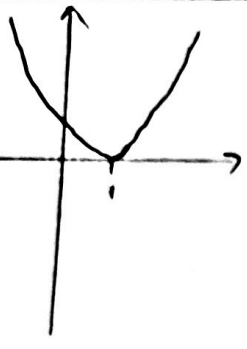


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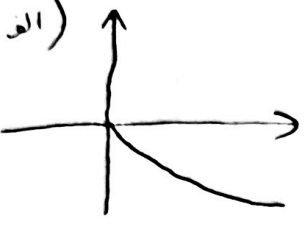


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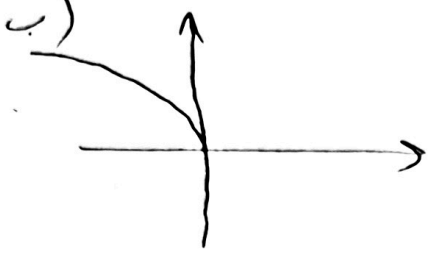
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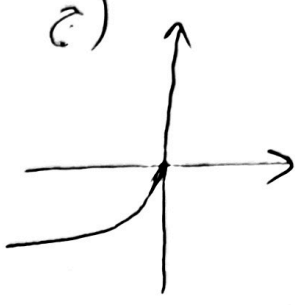
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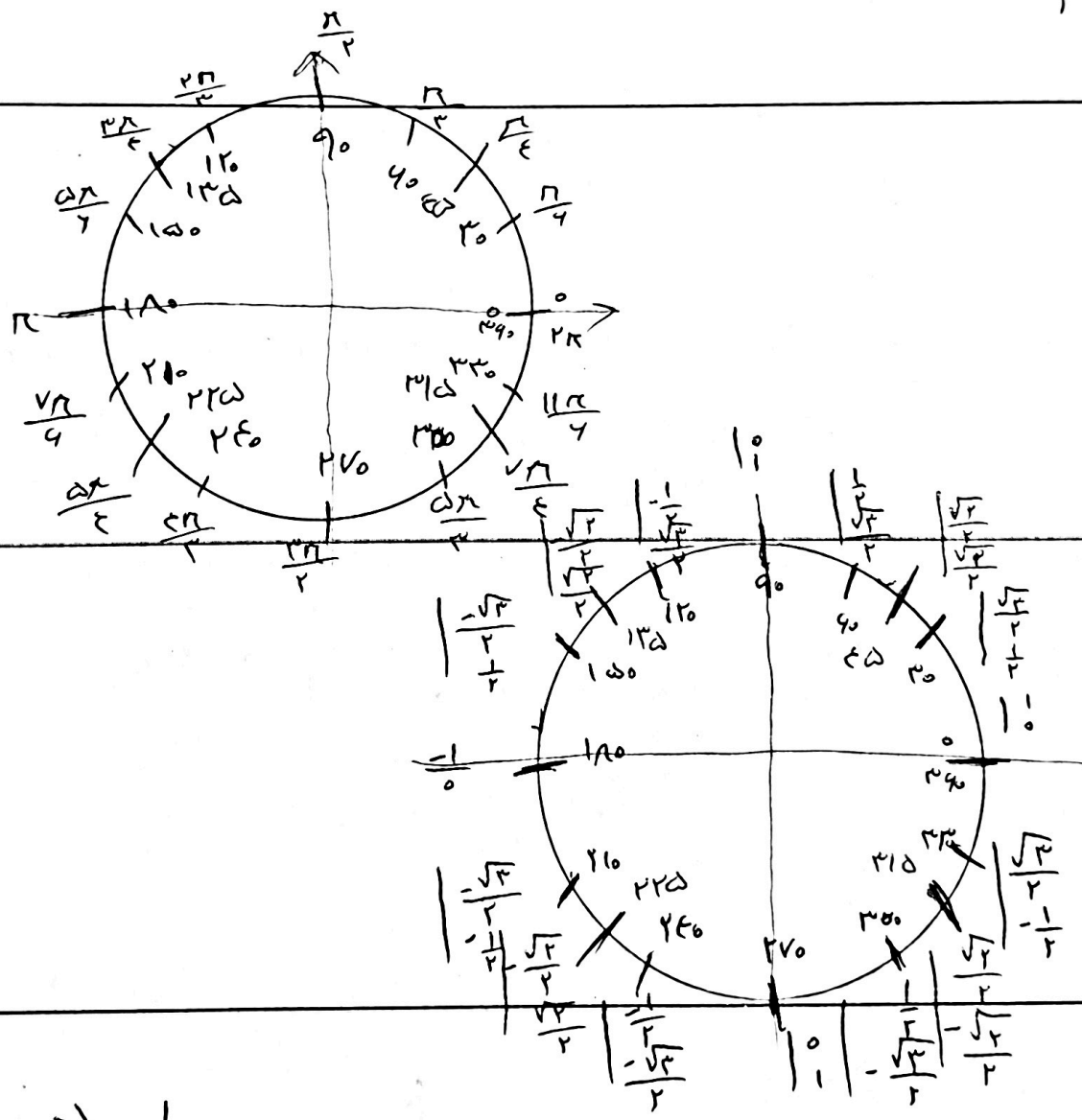
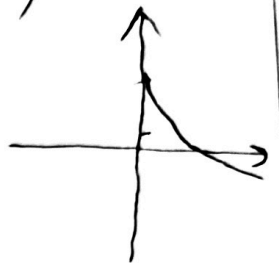
ب))



ج))



د))



ا)) $-\frac{1}{r}$

ب)) $-\frac{1}{r}$